

ABSTRACT OF THE DISCLOSURE

A device and method for scrambling data by means of address lines is disclosed, which includes a seed generator, a first parameter generator, a data scrambler and a de-scrambler. The seed generator is connected to an address bus for generating a seed in accordance with a specific address on the address bus. The first parameter generator is connected to the seed generator for generating a first parameter based on the seed. The data scrambler is connected to a data bus for scrambling data based on the first parameter when a CPU core is to write the data to the specific address. The de-scrambler is connected to the data bus for de-scrambling the data based on the first parameter when the core is to read the data from the specific address.